DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO

DCA ENTRANCE EXAMINTAION - X

DEFENCE CAREER ACADEMY, AURANGABAD.

As an ISO 9001 : 2008 - Certified

| ENT : 2019-2020 | MATH & GAT | Sr. No. |
| TIME : 2.00 Hrs. | | MAXIMUM MARKS : 150 |

QUESTION - BOOKLET

GENERAL INSTRUCTIONS

1. Do not carry any book, paper or any other material with you inside the Examination Hall.

2. Use only Black / Blue ball pen.

3. Keep the Hall Ticket with you ready for scrutiny.

4. Result of this Examination will be displayed on the Notice Board. The Result Sheet will include the successful/ qualified candidates ONLY.

5. All successful candidates indicated on the list shall present themselves for the invetview on the same day.

6. This Test Booklet contains 150 items (Questions). Question No. 1 to 150 (MCQ) carry 1 mark each You have to select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, Choose Only One response for each item.

7. All the answers must be marked on the Answer Sheet only. Do not write anything on this Test Booklet.

8. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR QUESTION ETC. IF SO, GET IT REPLACED BY THE SUPERVISOR.

9. Ask for a separate paper for rough work.

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10.   Read the questions carefully, Remember, answers are to be indicated in the Answer Sheet Only. Return the Test Booklet, Rough work papers and the Answer Sheet immediately when asked to do so. You are NOT permitted to take away with you any paper concerning the Examination.

ANSWER SHEET

11.   The Answer Sheet contains 150 counts, each subdivided in four { (1) (2) (3) (4)} subdivisions for indicating the correct choice of answers. After having selected the correct choice from the test Booklet, you should indicate that choice by completely blackening the respective circle, DO NOT merely cross the circle. You should indicate correct answer by blackening ONLY ONE circle in each answer. Any answer having more than ONE blackened circle will be treated as a WRONG answer.

12.   Before starting the answering ensure that you have filled the complete information at the top of this Answer Sheet. Incomplete Answer Sheet will be regarded as invalid.

THANK YOU AND BEST OF LUCK

1. For sets A, B and C, $(A \cup 2) \cup C = A \cup (B \cup 3)$. Which property of the operation of union does this statement suggest ?

   1) Commutative   2) Associative   3) Distributive   4) Equality

2. Which of the following is true for $A \cup (B \cup 1)$?

   1) $A' \cap B$ 2) $A \cup B$ 3) A   4) B

3. Which of the following is a true relation between A and $(A \cup 2)$?

   1) $A \subset (A \cup 2)$ 2) $A = (A \cup 2)$ 3) $(A \cup 2) \subset A$ 4) $(A \cup 2) \cup A = A$

4. If $B \subset A$, then what is $B \cap (B \cup 1)$?

   1) A   2) B   3) $B' \cap A'$ 4) $B \cup A$

5. If $A \cup B = \{a, b, c, d, e, f\}$ and $A = \{b, c, e, f\}$, then which of the following can be set B ?

   1) $\{a, d, g\}$ 2) $\{a, b, f\}$ 3) $\{a, d\}$ 4) $\{b, c, f\}$

6. Which of the following sets is a singleton set?

   1) $A = \{x | x^2 = 49, x \in I\}$
   2) $B = \{y | 5 + y^2 = 4 + 2y^2, y \in I\}$
   3) $C = \{p | p \in I, P^3 = 27\}$
   4) $D = \{q | q^2 - 25 = 0\}$

7. What is the decimal form of the rational number $\dfrac{6}{11}$?

   1) 0.54   2) $0.\overline{54}$ 3) 0.45   4) $0.\overline{45}$

8. What is the solution of $\left| x - \dfrac{1}{2} \right| = \dfrac{3}{2}$?

   1) $x = -2$ or $x = 1$ 2) $x = -2$ or $x = -1$ 3) $x = 2$ or $x = -1$ 4) $x = 2$ or $x = 1$

9. Which of the following is not a surd ?

   1) $\sqrt[4]{0.16}$ 2) $\sqrt[3]{0.27}$ 3) $\sqrt{0.16}$ 4) $\sqrt{0.27}$

10. Which of the following rational numbers lies between the rational numbers $\dfrac{5}{9}$ and $\dfrac{7}{12}$?

    1) $\dfrac{23}{36}$ 2) $\dfrac{41}{72}$ 3) $\dfrac{19}{36}$ 4) $\dfrac{43}{72}$

11. What is the square root of $2\sqrt{24}$?

    1) $\sqrt{8} - \sqrt{3}$ 2) $\sqrt[4]{6}$ 3) $\sqrt{6}$ 4) $\sqrt{12}$

12. What is the $\dfrac{p}{q}$ form of recurring decimal 0.777...?

    1) $\dfrac{7}{9}$ 2) $\dfrac{7}{10}$ 3) $\dfrac{7}{11}$ 4) $\dfrac{7}{8}$

13. What should be added to $5x^2 + 2xy + y^2$ to get $3x^2 + 4xy - 2y^2$?

    1) $-2x^2 + 2xy - y^2$ 　　2) $-2x^2 + 2xy + y^2$ 　　　　3) $-2x^2 + 2xy - 3y^2$ 　4) $-2x^2 + 2xy + 3y^2$

14. In which two parts should the middle term be split to factorise $2x^2 + 5x - 3$?

    1) 2x and 3x 　　　　2) – 2x and – 3x 　　　　3) x and – 6x 　　　　4) 6x and – x

15. (2x – 3) (3x+2) are the factors of which of the following expressions?

    1) $6x^2 + 5x - 6$ 　　2) $6x^2 - 5x - 6$ 　　　　3) $6x^2 - 9x - 6$ 　　4) $6x^2 + 9x - 6$

16. What is the coefficient form of the polynomial $x^5 + 3x^2 - 1$?

    1) (1, 3, -1) 　　　　2) (1, 0, 3, -1) 　　　　3) (1, 0, 0, 3, 0, -1) 　4) (1, 0, 3, 0, -1)

17. What is the coefficient form of the polynomial $y^4 + 3$?

    1) (1, 3) 　　　　2) (1, 0, 3) 　　　　3) (1, 0, 0, 3) 　　　　4) (1, 0, 0, 0, 3)

18. What is the index form of the polynomial (1, 0, -3, 0, 5) taking x as variable?

    1) $x^5 - 3x^2 + 5$ 　　2) $x^4 - 3x^3 + 5$ 　　　　3) $x^4 - 3x^2 + 5$ 　　4) $x^4 - 3x + 5$

19. When $(x^3 + 2x^2 - x - 1)$ is divided by (x-1), the remainder is zero. What is the value of a?

    1) -1 　　　　2) 1 　　　　3) -2 　　　　4) 2

20. Which of the following is not a linear equation in two variable?

    1) $x + y = 3$ 　　　　2) $x - 2y = 3$ 　　　　3) $x - 7 = y$ 　　　　4) $xy = 3$

21. Which of the following is not the solution of $2x + 3y = 6$?

    1) (-3, 4) 　　　　2) (3, -4) 　　　　3) (0, 2) 　　　　4) (3, 0)

22. Which of the following represents the general form of the linear equation $y = 5x - 7$?

    1) $5x - y = 7$ 　　2) $5x - y - 7 = 0$ 　　　　3) $y - 5x + 7 = 0$ 　　4) $5x + y = -7$

23. What is the value of x, if $2x + y = 5$ and $y - 1 = 0$?

    1) 5 　　　　2) 4 　　　　3) 2 　　　　4) 0

24. What is the value of (x-y), if $\dfrac{x}{2} = \dfrac{6}{y} = 2$?

    1) 4 　　　　2) 1 　　　　3) -1 　　　　4) 0

25. What is the solution of the simultaneous equations $2x + y = 5$ and $x + 2y = 4$?

    1) (2,2) 　　　　2) (1,1) 　　　　3) (1,2) 　　　　4) (2,1)

26. What is the value of (x-y), if $4x + 3y = 24$ and $3x + 4y = 25$?

    1) -1 　　　　2) 1 　　　　3) 7 　　　　4) -7

27. What is the value of $\left(\dfrac{1}{x} - \dfrac{1}{y}\right)$, if $\dfrac{6}{x} - \dfrac{3}{y} = 10$ and $\dfrac{2}{x} - \dfrac{5}{y} = 6$?

    1) 1 　　　　2) 2 　　　　3) -2 　　　　4) 4

28. In which quadrant or on which axis will the point (x,y) lie in the following cases?

    x < 0, y < 0

    1) Quadrant I 　　　2) Quadrant II 　　　　3) Quadrant III 　　4) Quadrant VI

29. In which quadrant or on which axis will the point (x,y) lie in the following cases?

x > 0, y = 0

1) X-axis   2) Y-axis   3) Quadrant I   4) Quadrant VI

30. Where does the point (-3, 0) lie in the Cartesian coordinate system?

1) Quadrant II   2) Quadrant III   3) X-axis   4) Y-axis

31. In rectangle ABCD, AB:BC = 5 : 3. A ($\square$ ABC4) = 29.4 cm2. What is the length of AB?

1) 1.4 cm   2) 2.8 cm   3) 4.2 cm   4) 7.0

32. What is the simplest form of the ratio of 3 min 54 sec to 1 min sec?

1) 2 : 1   2) 3: 1   3) 78 : 29   4) 4 : 1

33. What is the percentage form of $\dfrac{16}{5}$?

1) 3200%   2) 320%   3) 32%   4) 3.2%

34. If x : y = a : b, then by which property of equal ratios is x : a = y : b ?

1) Invertendo   2) Alternendo   3) Componendo   4) Dividendo

35. Which mathematician is known as the father of statistics?

1) Sir Ronald Fisher   2) Blaise Pascal   3) Pierre Fermat   4) Jacques Bernoulli

36. What is the mean of observations

2, 4, 7, 8, 9 ?

1) 9   2) 3   3) 30   4) 6

37. What is the mean of observations

12, 8, 10, 6, 9 ?

1) 8.5   2) 7.5   3) 9   4) 10

38. What is the mean of first five even natural numbers?

1) 30   2) 7   3) 6   4) 5

39. What is the mean of first five odd natural numbers?

1) 25   2) 9   3) 7   4) 5

40. What is the value of x, if the mean of 21, 22, 23, 24, and x is 23?

1) 25   2) 24   3) 23   4) 22

41. How many lines can be drawn passing through a given point.

1) One and only one   2) Two   3) Four   4) Infinite

42. How many points determine a plane ?

1) Three collinear points   2) Three non-collinear points

3) Any two points   4) Any four points

43. What is the intersection of two planes?

1) A line   2) A point   3) A plane   4) An angle

44. If l(A2) = 7 cm. l(BP) = 4 cm and l(AP) 5.4 cm, then which of the following is true?

    1) AB < BP < AP   2) AP < AB < BP   3) BP < AP < AB   4) BP < AB < AP

45. How many elements does a triangle have?

    1) Two   2) Three   3) Six   4) Nine

46. In $\triangle$ ABC, $\angle A = 45^0$, $\angle B = 45^0$, $\angle C = 90^0$. What type of $\triangle$ ABC is?

    1) Isosceles triangle   2) Isosceles right angled triangle

    3) Right angled triangle   4) Equilateral triangle

47. Which of the following are not cevians in an acute angled triangle?

    1) Perpendicular   2) Medians

    3) Angle bisectors   4) Altitudes

48. In which type of triangle does the centroid, incentre and orthocentre lie at the same point?

    1) An isosceles triangle   2) A right angled triangle

    3) An equilateral triangle   4) An isosceles right angled triangle

49. For the correspondence ABC $\leftrightarrow$ RQP between $\triangle$ ABC and $\triangle$ PQR, seg AB = seg QR, seg Ac $\cong$ seg PR and $\angle A \cong \angle R$. Then by which test are the triangles congruent?

    1) SAS   2) SAA   3) ASA   4) SSS

50. in $\triangle$ ABC, D is a point on side BC such that AD = BD = CD. Then which of the following is true?

    1) $\triangle$ ABC is an equilateral triangle   2) $\triangle$ ABC is a right angled triangle

    3) $\triangle$ ABC is an isosceles right angled triangle   4) $\triangle$ ABC is an isosceles triange

51. What is the measure of the acute angle of an isosceles right angled triangle?

    1) 30^0 2) 40^0 3) 45^0 4) 60^0

52. in $\triangle$ ABC, $\angle C \cong \angle A$. Which sides of $\triangle$ ABC are congurent?

    1) Any two   2) AC and BC   3) AB and AC   4) AB and BC

53. What are the circles with centre P and radius 6 cm and with centre P and radius 8 cm called?

    1) The same circles   2) Congruent circles   3) Concentric circles 4) Collinear circles

54. What are the circles with centre P and radius 4.5 cm and with centre Q and radius 4.5 cm called?

    1) The same circles   2) Congruent circles   3) Concenric circles 4) Collinear circles

55. Line l lies in the plane of a circle with centre P and radius 5 cm. M, the foot of the perpendicular from P on the line l, lies in the interior of the circle. What is the length of PM?

    1) PM > 5 cm   2) PM $\geq$ 5 cm   3) PM = 5 cm   4) PM < 5 cm

56. Line l lies in the plane of a circle with centre P and radius 8 cm. M, the foot of the perpendicular from P on the line l does not line in the interior of the circle. What is the length of PM?

    1) 8 cm   2) < 8 cm   3) > 8 cm   4) $\geq$ 8cm

57. $\square$ ABCD is a parallelogram in which AB = 4 cm and BC = 5 cm. What is its perimeter?

    1) 9 cm   2) 20 cm   3) 20 cm²   4) 18 cm

58. The perimeter of parallelogram PQRS is 30 cm. If PQ : QR = 2 : 3, what is the length of RS?

    1) 3   2) 4   3) 6   4) 9

59. ☐ABCD is a parallelogram in which AB = 2 BC. If CD=8 cm, then what is the perimeter ☐ABCD?

    1) 12 cm   2) 24 cm   3) 28 cm   4) 32 cm

60. In parallelogram DEFG, $\angle D : \angle E = 7 : 11$. What is the measure of $\angle F$?

    1) 70^0 2) 35^0 3) 55^0 4) 110^0

61. What is the distance between the points $A \equiv (4, 7)$ and $B \equiv (-1, 5)$?

    1) 5   2) 12   3) 13   4) $\sqrt{13}$

62. What is the distance of the point $P \equiv (-3, 4)$ from the origin O?

    1) 5   2) -3   3) 4   4) -5

63. The coordinates of the midpoint of seg AB are (1, 1) and the coordinates of point B are (4, 3). What are the coordinates of point A ?

    1) (2, 1)   2) (-2, 1)   3) (2, -1)   4) (-2, -1)

64. $P \equiv (-7, 4)$ and $Q \equiv (5, -2)$. Point R divides segment PQ internally in the ratio 1 : 1. What are the coordinaes of the point R.

    1) (1, 1)   2) (-1, 1)   3) (-1, -1)   4) (1, -1)

65. The distance between the points $A \equiv (2, -3)$ and $B \equiv (5, x)$ is 5. What is the value of x?

    1) 1   2) 7   3) 2   4) 5

66. Δ ABC, $\angle B = 90^0$. If AB = 8 cm, BC = 15 cm and AC = 17 cm, then what is the value of cos C?

    1) $\dfrac{8}{15}$ 2) $\dfrac{15}{8}$ 3) $\dfrac{15}{17}$ 4) $\dfrac{8}{17}$

67. In Δ ABC, $\angle C - 90^0$. If AB = 5 cm, AC = 4 cm and BC = 3 cm, then what is the value of tan B?

    1) $\dfrac{4}{3}$ 2) $\dfrac{3}{4}$ 3) $\dfrac{4}{5}$ 4) $\dfrac{3}{5}$

68. If $2 \sin \theta = 3 \cos \theta$, then what is the value of $\tan \theta$?

    1) $\dfrac{2}{3}$ 2) $\dfrac{3}{2}$ 3) 1   4) $\dfrac{1}{2}$

69. If $\tan \theta = 1$, then what is the value of $\sin \theta . \cos \theta$?

    1) 1   2) 2   3) $\dfrac{1}{4}$ 4) $\dfrac{1}{2}$

70. Δ ABC, $\angle C - 90^0$. If AC = 15 cm and $\sin C = \dfrac{3}{5}$, then what is the value of AB?

    1) 3 cm   2) 6 cm   3) 9 cm   4) 12 cm

71. ☐ABCD, $\angle B = 90^0$. If AB = 6 cm and BC = 8 cm, then what is (Δ AB3) ?

    1) 24 cm²   2) 30 cm²   3) 40 cm²   4) 48 cm²

72. In Δ PQR, RS is an altitude corresponding to base PQ. If PQ = 10 cm and RS = 8 cm, then what is A (Δ PQR) ?

1) 80 cm²　　　　2) 48 cm²　　　　3) 40 cm²　　　　4) 24 cm²

73. ☐WXYZ is a parallelogram. If A (Δ WXZ) = 16 cm². then what is A (☐ WXYZ)?

1) 16 cm²　　　　2) 32 cm²　　　　3) 24 cm²　　　　4) 48 cm²

74. ☐ABCD is a rhombus in which AC = 6 cm and BD = 9 cm. What is the area of rhombus ABCD?

1) 54 cm²　　　　2) 45 cm²　　　　3) 15 cm²　　　　4) 27 cm²

75. If the are of rhombus ABCD is 40 cm² and AC = 8 cm, then what is the length of BD?

1) 5 cm　　　　2) 8 cm　　　　3) 10 cm　　　　4) 16 cm

PART - II GAT

*　Q.76. to 78 : Read the following passage carefully and answer the questions choosing the correct option.

PASSAGE-I

Without causing any pollution in the form of suffocating fumes and earsplitting explosions, the bicycle converts energy into motion and, that too, more efficiently than any other machine. For the first time since the appearance of motor cars, the bicycle is seen today as a more attractive means of transport. Improved technology, combined with heightened interest in the environment, the outdoors and physical fitness, have transformed the image of bicycling in Europe and America into a fashionable and healthy activity. Cycling is a form of sport that enables people to rediscover nature. The ATB (all-terrain-bike) is used in riding to the top of mountains and in cross-country races. Riding an ATB is a great way of keeping fit, and it is quieter than walking. The cyclist hears no sound of the tyres on the path and is free to watch the flora and fauna while having a joyride with friends.

76. The image of the bicycle has changed mainly because of

1) interest in environment and physical fitness

2) physical fitness and fashion

3) its noiselessness & smoke free operation

4) improved technology and fashion

77. The bicycle is a machine which

1) Converts physical energy into motion easily

2) require as much energy as a motor car.

3) is not as good as a motor car for sight seeing

4) is not in fashion these days.

78. Riding on ATB is quieter than walking because

1) its tyres produce no sound while moving along the path

2) its tyres do not touch the ground

3) it has a very slow speed

4) walking shoes are noisy

* Q.79. to 81 : Read the following passage carefully and answer the questions choosing the correct option.

PASSAGE-II

We had often animal visitors that were not welcome. Scorpions were frequently found in our cells, especially after a thunder-storm. It was surprising that I was never stung by one, for I would come across them in the most unlikely place – on my bed, or sitting on a book which I had just lifted up. I kept a particularly black and poisonous-looking brute in a bottle for sometime, feeding him with flies, etc., and then when I tied him up on a wall with a string he managed to escape. I had no desire to meet him loose again, and so I cleaned my cell out and hunted for him everywhere, but he had vanished.

79. Scorpions were unwelcome visitors because

   1) they were black and ugly   2) the author was afraid of them

   3) they made the room dirty   4) the author did not love animals

80. The author kept a scorpion in a bottle because he wanted to

   1) feed him with flies   2) clean his room

   3) watch him out of curiosity   4) torutre him

81. When the scorpion escaped from the bottle, the author was

   1) happy   2) scared   3) indifferent   4) sad

* Instruction : Fill in the blanks with suitable alternative.

82. Please add a little <u>sugar</u> in the tea.

   1) Countable Noun   2) Abstract Noun   3) Uncountable Noun   4) Collective Noun

83. He was honared for his <u>bravery</u>.

   1) Collective Noun   2) Abstract Noun   3) Common Noun   4) Proper Noun

84. Ritesh has been reading a novel for last two days.

   1) Present Perfect tense   2) Present Perfect continuous tense

   3) Past Perfect tense   4) Past Perfect continuous tense

85. The result was declared by <u>the board</u>.

   1) subject   2) complement   3) object   4) Adverbial

86. You will pass the exam <u>if you study well</u>.

   1) main clause   2) subordinate clause   3) principal clause   4) none of these

87. I go to school ....

   1) regular   2) regularly   3) irregular   4) none of these

88. Sanjiv………………now.

   1) was playing   2) play   3) is playing   4) none of these

89. The sentence, "This is the boy whom I met yesterday."is

   1) Simple sentence   2) compound sentence   3) complex sentence   4) none of these

90. 1) Colonel   2) Colonal   3) Cornal   4) Curnel

* **Instruction : Give the Synonyms of :**

91. He is good-looking but <u>insipid</u> young man.

     1) Arrogant   2) Unspcupulous   3) Sick   4) Lacking in spirit

92. He had <u>insidiously</u> wormed his way into her affections.

     1) In a polite manner   2) In a seceat manner   3) In ugly way   4) In a forceful manner

93. His boss's criticism left him feel rather <u>abashed</u>.

     1) Annoyed   2) Arrogant   3) Embarrassed   4) Awakened

94. The <u>inexorable</u> demands of the workers brought the company to a closure.

     1) Unreasonable   2) Relentless   3) Monetary   4) Violent

95. The <u>acerbic</u> remarks of the manager were unwarranted.

     1) Bitter   2) furious   3) Arrogant   4) Childish

* **Instruction : Give the Antonyms of :**

96. There was a <u>marginal</u> increase in his pay.

     1) peripheral   2) significant   3) negligible   4) unforeseen

97. The geologists declared that the fossil was <u>authentic.</u>

     1) fake   2) beautiful   3) old   4) new

98. The commitee set about making <u>provisional</u> arrangements for the annual conference.

     1) permanent   2) lasting   3) abiding   4) unconditional

99. He climbed up a <u>stationary</u> wagon.

     1) standing   2) shunting   3) speeding   4) moving

100. It is surprising to find her <u>conditioning</u> such an act.

     1) forbidding   2) disliking   3) condemning   4) allowing

101. If in a certain language, GAMBLE is coded as FBLCKF, how is FLOWER coded in that code?

     1) GKPVFQ   2) EMNXDS   3) GMPVDS   4) HNQYGT

* **Direction : In each of the following questions, four words have been given, out of which three are alike in some manner and one is different. Choose the odd one.**

102. 1) Raid   2) Attack   3) Assault   4) Defence

* **Direction : In each of the following questions, a number series is given with one term missing. Choose the correct alternative that will continue the same pattern and fill in the blank spaces.**

103. 3, 6, 18, 72, (.......)

     1) 144   2) 216   3) 288   4) 360

104. Rasik walks 20m North. Then he turns right and walks 30 m. Then he turns right and walks 35 m. Then he turns left and walks 15m. Then he again turns left and walks 15 m. In which direction and how many metres away is he from his original position?

    1) 15 metres West   2) 30 metres East   3) 30 metres West   4) 45 metres East

*   **Direction : In each of the following questions, there is a certain relationship between two given words on one side of : :and one word is given on another side of : : while another word is to be found from the given alternatives, having the same relation with this word as the words of the given pair bear. Choose the correct alternative.**

105. Muslims : Mosque : : Sikhs : ?

    1) Golden Temple   2) Medina   3) Fire Temple   4) Gurudwara

106. Plant cel differ from animal cell in absence of -

    1) centrioles   2) mitochondria   3) endoplasmic   4) ribosomes

107. Plasmolysis occur due to -

    1) osmosis   2) absorption   3) exosmosis   4) endosmosis

108. Suicidal bag of cell is the -

    1) ribosome   2) lysosome   3) cisterna   4) vacuole

109. ATP molecule formation is by-

    1) cytoplasm   2) nucleus   3) nucleoplasm   4) chromosomes

110. Endoplasmic reticulum network found in -

    1) cytoplasm   2) nucleoplasm   3) only nucleus   4) chromosomes

111. Inheritance is the function of -

    1) nucleus   2) chromosome   3) centriole   4) all of these

112. Egg ----------------- is the single largest cell.

    1) ostrich   2) neuron   3) emu   4) crow

113. The cortex of brain have ------------nerve cell.

    1) then thousand   2) ten thousand million

    3) ten lakh   4) only one thousand

114. Osmotic pressure of cell is maintained by -

    1) cytoplasm   2) mitochondrion   3) vacuole   4) golgi godies

115. Which of the following part a seed stores food?

    1) cotyledon   2) shoot   3) root   4) plumule

116. The leaf like part of the embryo is called:

    1) plumule   2) radicle   3) micropyle   4) cotyledons

117. A sapling grows into:

    1) seed   2) plant   3) seedling   4) all the above

118. Animals with a backbone are called:

    1) Vertebrates   2) invertebrates   3) echinoderms   4) insects

119. Which of these animals has slimy scales on their body?

1) reptiles   2) bird   3) fish   4) pangolin

120. Hypostomatous (stomate on the lower surface) plants are usually:

1) aquatic plants   2) semiaquatic plants   3) non-aquatic plants 4) none of these

121. What is the latitudnal extent of mainland India?

1) 8^0 4 28" to 37^0 653" North   2) 29^0 2' 25"

3) 07^0, 03' to 37^0 $7^0$28" North   4) 080 4' 28 to 370 3' 28" North

122. Where is the Indira Point located at?

1) 08^0 45" North latitude   2) 06^0 45" North latitude

3) 07 45" North latitude   4) 08" 50"

123. What is the longitudnal extent of India?

1) 29^0 14' 17"   2) 29^0 17' 14"   3) 17^0 17' 29"   4) 14^0 17' 29"

124. Where is the prime meridian of India lacated?

1) 82^0 25'   2) 82^0 35'   3) 82^0 30'   4) 83^0 30'

125. When was the "Quit India Movement" resolution sanctioned?

1) 14 July 1942   2) 14 July 1922   3) 14 July 1920   4) 12 March 1930

126. What is the name of the southern most tip of Indian territory?

1) Kanniyakumary   2) Madurai   3) Indira Point   3) Chennai

127. Where does the Indus river originate?

1) Zaskar Range   2) The karakoram   3) Mansarovar   4) Subansiri

128. How many percent of the people of Rajasthan live in Desert?

1) 22%   2) 38%   3) 43 %   4) 64%

129. Which project is built on the Sutlej river?

1) Bhakra-Nangal   2) Hirakund   3) Jayakwadi   4) Damodar Valley

130. What type of soil is found in Bangar region?

1) New alluvial   2) older alluvial

3) consisting chemicial   4) consisting boulders and gravels

131. Who was the Viceroy at the time of Quit India Movement?

1) Lord Irwin   2) Lord Mountbatten   3) Lord Wavell   4) Lord Linlithgow

132. The country that shares longest border with India is–

1) China   2) Bangladesh   3) Nepal   4) Pakistan

133. "Deshbandhu" is the title of–

1) B. R. Ambedkar   2) C. R. Das   3) B. C. Pal   4) Rabindranath Tagore

134. The first woman to conquer Mount Everest twice is–

1) Surja Lata Devi   2) Jyoti Randhawa   3) Santosh Yadav   4) Suma Shirur

135. Which Indian hockey player has a road named after him in Germany ?

1) Dhyan Chand   2) Zafar Iqbal   3) Roop Singh   4) Dhanraj Pillai

136. Who described the Government of India Act, 1935 as a new charter of bondage?

1) B. R. Ambedkar   2) Mahatma Gandhi   3) Rajendra Prasad   4) Pt. Jawaharlal Nehru

137. Kaziranga National Park is situated in–

1) Odisha   2) Gujarat   3) Rajasthan   4) Assam

138. Which City is the venue of the 2018 women's world Boxing championships.

1) New Delhi   2) Pune   3) Shimla   4) Patna

139. In which year the Azad Hind Government was formed by Netaji Subhas Chandra Bose.

1) 1943   2) 1942   3) 1940   4) 1941

140. Which one of these books was written by V.S. Khandekar?

1) Yayati   2) Mrutunjay   3) Shriman Yogi   4) Panipat

141. Literacy rate is heigher in Brazil than ....

1) India   2) America   3) England   4) Germany

142. The life expectency of India's is.............

1) Increasing   2) Decreasing   3) Developing   4) All above

143. Who was the president of America during first world war?

1) woodrow wilson   2) Franklin Roosevelt

3) George Washington   4) John kenedy

144. The East European region (Balkan area) was under the empire of.....

1) Austria   2) Hungary   3) Germany   4) Turkey

145. Mustafa Kemal Pasha was born in wood-seller's family

1) Germany   2) Turkey   3) Japan   4) Hungary

146. When and where was the first Olympic games held?

1) 1995, Athens   2) 1896 Athena's   3) London 2000   4) Rome 1920

147. Where is wankhede Stadium located?

1) Chennai   2) Pune   3) Nagpur   4) Mumbai

148. Where did Christopher Columbus landed?

1) Asia   2) Africa   3) England   4) West Indies

149. Who was the leader of Germany from 1933 to 1945?

1) Adolf Hitler   2) Martin Luther king Jr.

3) Alexander the Great   4) Karl Marx.

150. How many permanent members are there in the security council.

1) Three   2) Five   3) Four   4) Six

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